

CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth moving equipment. All dikes shall have positive drainage to an outlet. Top width may be wider and side slopes may be flatter if desired to facilitate
- crossing by construction traffic.

 Field location should be adjusted as needed to utilize a stabilized safe outlet.

 Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not
- adquately stabilized.

 Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) Flow channel as per

FLOW CHANNEL STABILIZATION

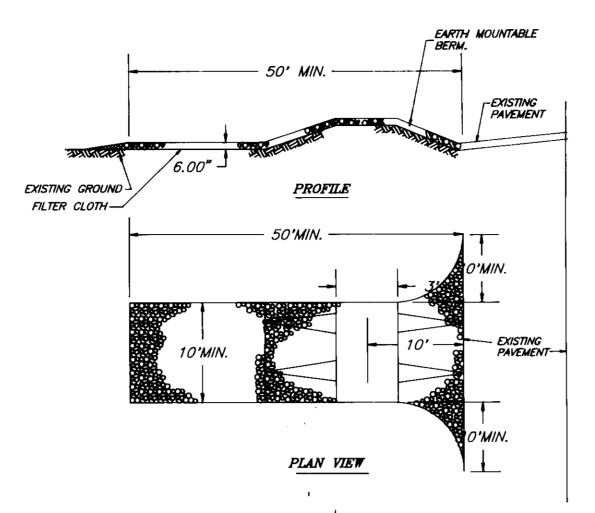
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-3.0 %	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STON
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE.	LINED RIP-RAP 4"-8"
4	8.1-20 %	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

mones in thickness and be pressed into the soil with construction equipment.

8. Rip Rap to be 4-8 inches in a layer at least 8 inches thick and pressed into the soil.

7. Periodic inspection and required maintenance must be provided after each rain event.

EARTH DIKE (ED) NO SCALE



STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- STONE SIZE: USE 2º STONE, OR RECYCLED CONCRETE EQUIVALENT. LENGTH: AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
- 3. THICKNESS: NOT LESS THAN SIX (6) INCHES. 4. WIDTH: TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH
- AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A
- SINGLE FAMILY RESIDENCE. S. SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES
- WILL BE PERMITTED. ". MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH
- ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE 8. WASHING: WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO
- ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.)

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules: 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/100 sgft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding Harrow or disc into upper three inches of soil. At the time of seeding, apply

2) Acceptable- Apply 2 tons per acre dolomatic limestone (92 lbs/1000 sg ft.) and 1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1000 sg ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft)

MAINTENANCE: Inspect all seeded areas and make needed repairs, repaicements and

TEMPORARY SEEDING NOTES

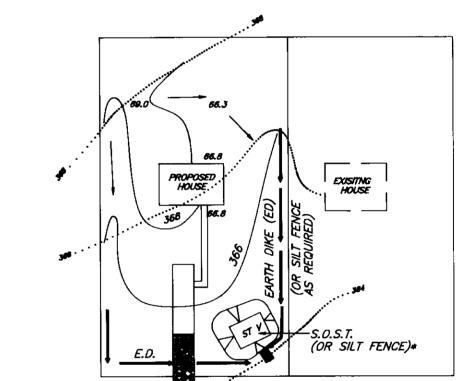
SEEDBED PREPARARTION: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

- WOVEN WIRE FENCE (MIN. 14 1/2 GAUGE, MAX. 6" MESH SPACING.)

-36" MIN. FENCE POST

SOIL AMENDMENTS: Apply 600 lbs per acre 10-10-10 fertilizer (14lbs/1000 sq ft). SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod. MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



SEDIMENT AND EROSION CONTROL NOTES 1. A minimum of 24 hours notice must be given to the Howard

County Office of Inspection and Permits prior to the start of

according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECS.

Following initial soil disturbance or redisturbance, permanent

or temporary stabilization shall be completed within: a) 7

calendar days for all perimeter sediment control stuctures,

dikes, perimeter slopes and all slopes greater than 3:1, b)

14 days as to all other disturbed or graded areas on the

All sediment traps/basins shown must be fenced and warning

All disturbed areas must be stabilized within the time period

do not allow for proper germination and establishment of

are to be maintained in operative condition until permission

Total Area of Site: 2.586 acres
Area Disturbed: 2.39 acres

Offsite Waste/Borrow Area Location:

Any sediment control practice which is disturbed by grading

activity for placement of utilities must be repaired on the

Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector. On all sites with disturbed areas in excess of 2 acres, approval

of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but

before proceeding with any other earth disturbance or grading.

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency

If houses are to be constructed on an "as sold" basis, at

random, Single Family Sediment Control, as shown below

All pipes to be blocked at the end of each day (see detail

* It is the responsibility of the contractor to identify

the spoil/borrow site and notify HCSCD of the site and

it's grading permit number at the time of construction.

for their removal has been obtained from the Howard County

Area to be roofed or paved: 0.8 acres

Area to be roofed or paved: 1.59 acres

grasses.
6. All sediment control structures are to remain in place and

Area to be vegetatively stabilized.:

signs posted around their perimeters in accordance with Vol.1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm

specified above in accordance with the 1983 MARYLAND STANDARDS

AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec.51) sod (Sec.54), temporary seeding (Sec.50) and mulching (Sec.52). Temporary stabilization with

mulch alone can only be done when recommended seeding dates

2. All vegetative and structural practices are to be installed

FOR SOIL EROSION AND SEDIMENT CONTROL.

any construction. (992-2437).

Sediment Control Inspector.

same day of disturbance.

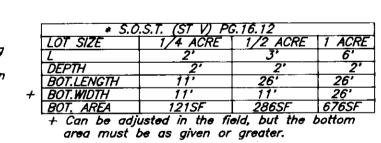
shall be implemented.

13. The total amount of silt fence= 1515 If

this sheet).

7. SITE ANALYSIS:

NOTE: Single lot detail cannot be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing an existing



SINGLE LOT SEDIMENT CONTROL PLAN

NO SCALE

NO. OF DAYS CONSTRUCTION SEQUENCE: Obtain grading permit and install sediment and erosion control devices, tree protection fence, and stabilize. Excavate for foundations, rough grade and temporarily stabilize.

CLARK • FINEFROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY. ◆ COLUMBIA, MD. 21045. ◆ (301) 381-7500 — BALTO. ◆ (301) 621-8100 -- WASH

Construct structures, sidewalks and driveways. Final grade and stabilize in accordance with Stds. and Specs. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.

SILT FENCE (S) NO SCALE

PERSPCTIVE VIEW

16" MIN.

WOVEN WIRE FENCE (14 1/2 GA. MIN. 6" MESH SPACING) WITH FILTER CLOTH

STANDARD SYMBOL: — S — S — S —

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES

OR STAPLES.
FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER—

POSTS: STEEL EITHER I OR U TYPE OR 2" HARDWOOD. FENCE: WOVEN WIRE, 14 GA., 6" MAX. MESH OPENING. FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL. PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

LAPPED BY SIX INCHES AND FOLDED.

MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN
"BULGES" DEVELOP IN THE SILT FENCE.

signature -

ENGINEER'S CERTIFICATE

l he**r**eby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site condtions and that it was prepared in accordance with the requirements of the Howard Soil Conserva-



DESIGNED
KIWM
DRAWN KIWM VLP
CHECKED

SEDIMENT AND EROSION CONTROL PLAN LOTS 15 THRU 19 AND 37 THRU 47 VILLAGE OF KINGS CONTRIVANCE SECTION 5 AREA 4 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND KIWM

3 of 3 JOB NO. 91-116 FOR: PATRIOT HOMES, INC. FILE NO. COLUMBIA, MARYLAND 21044 FREDERICK, MARYLAND 21701

1" = 30'

DRAWING

CHIEF DIVISION OF COMMUNITY PLANNING -AND LAND DEVELOPMENT. APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE. STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF RUBLIC WORKS

CHIEF BUREAU OF ENGINEERING

10.18.81

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

> THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD

DEVELOPER'S / BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed

OWNER/DEVELOPER

DEVELOPMENT CORP.

Columbia, MD. 21044

HOWARD RESEARCH AND LAND

10275 LITTLE PATUXENT PKWY